LINNEA-90

~90° + 90° wide beam optimized for 1.0 mm metal sheet or profile. Variant made from PC.

SPECIFICATION:

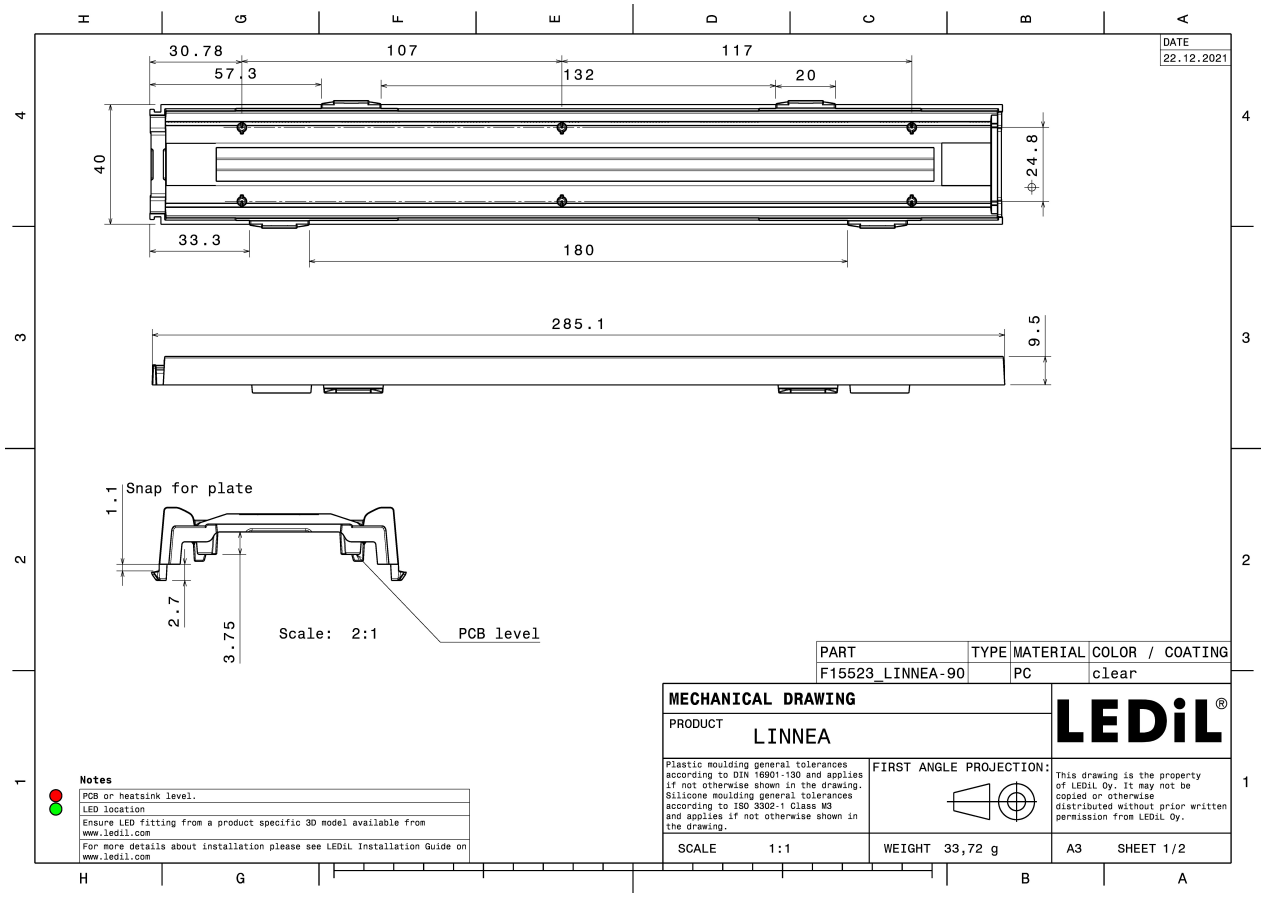
Dimensions	285.0 x 40.0 mm
Height	9.5 mm
Fastening	clips
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
LINNEA-90	Linear lens	PC	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F15523_LINNEA-90 » Box size: 398 x 298 x 265 mm	162	36	36	7.3

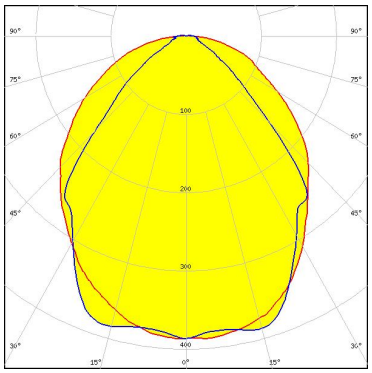


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

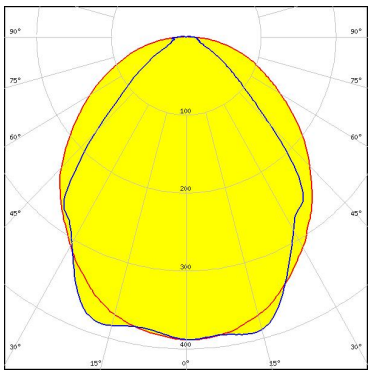
aled

LED	CALOSNU405-M7W1
FWHM / FWTM	104.0 + 87.0° / 164.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



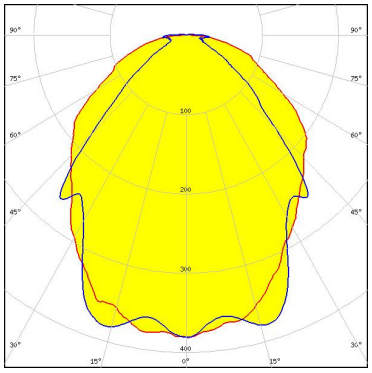
aled

LED	CALOSNU410-M7W1
FWHM / FWTM	104.0 + 86.0° / 164.0 + 124.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



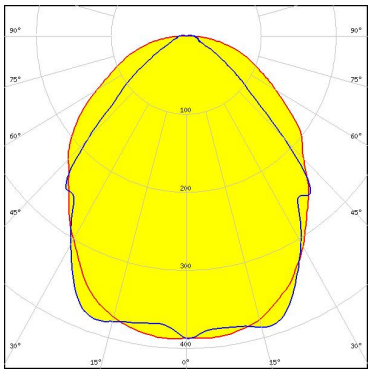
CREE LEDs

LED	XP-E
FWHM / FWTM	104.0 + 88.0° / 164.0 + 126.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



Helvar

LED	L-iC-282-827-865-011A
FWHM / FWTM	102.0 + 89.0° / 164.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

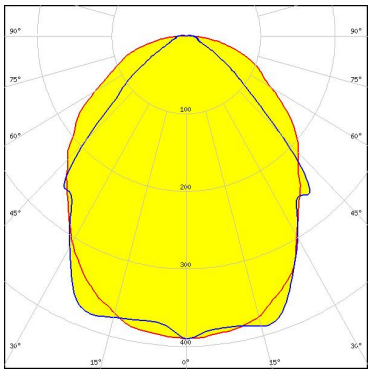


OPTICAL RESULTS (MEASURED):

Helvar

LED	LP-282-840-009A 60/300
FWHM / FWTM	100.0 + 89.0° / 163.0 + 125.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

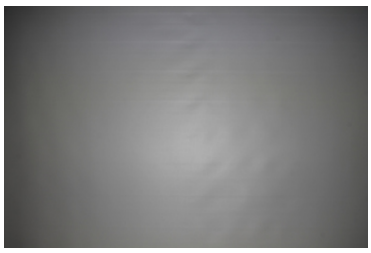
Required components:

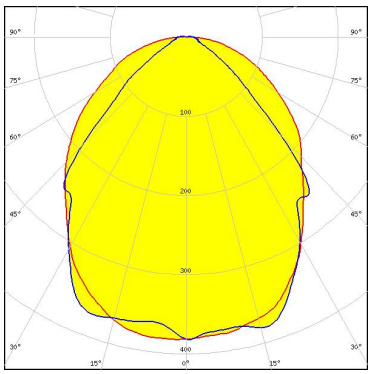


Helvar

LED	LS-282-840-011A
FWHM / FWTM	102.0 + 90.0° / 164.0 + 125.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

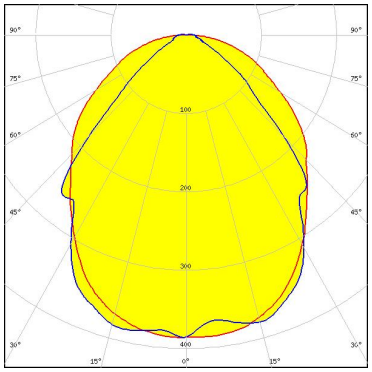




Helvar

LED	LX-282-840-023A
FWHM / FWTM	102.0 + 89.0° / 164.0 + 125.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

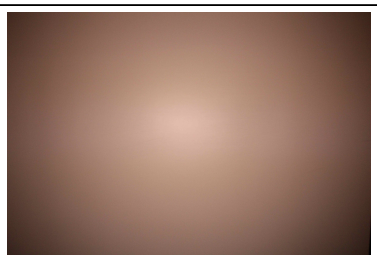
Required components:

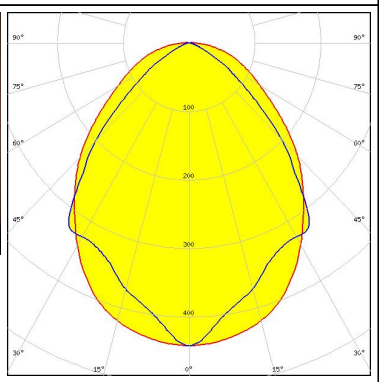


LUMITRONIX®
High-Performance LED-Technologies & Solutions

LED	LinearZ 280-112 Circadian TW
FWHM / FWTM	93.0 + 87.0° / 159.0 + 122.0°
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:



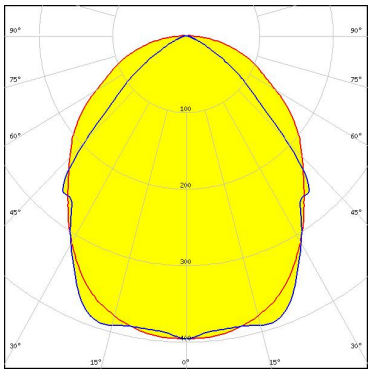


OPTICAL RESULTS (MEASURED):

LUMITRONIX® High-Performance LED-Technologies & Solutions

LED	LinearZ 280-26
FWHM / FWTM	101.0 + 89.0° / 164.0 + 124.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

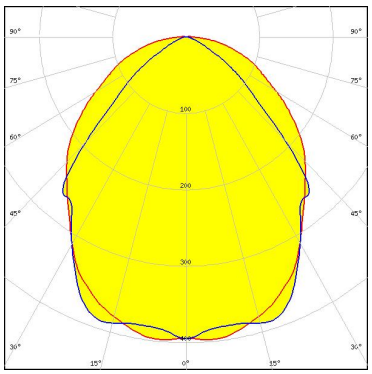
Required components:



LUMITRONIX® High-Performance LED-Technologies & Solutions

LED	LinearZ 280-40 TW
FWHM / FWTM	101.0 + 89.0° / 163.0 + 123.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Tunable White

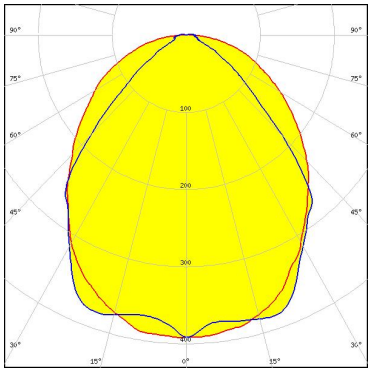
Required components:



MST Your solutions

LED	LinLED 280x24mm 1100lm 830 2C 30V LINNEA-GC G1
FWHM / FWTM	88.0 + 100.0° / 125.0 + 164.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

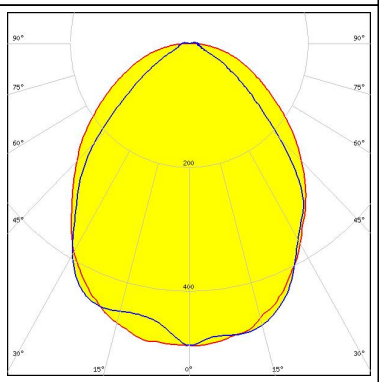
Required components:



NICHIA

LED	NF2x757D
FWHM / FWTM	86.0 + 99.0° / 125.0 + 159.0°
Efficiency	0 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

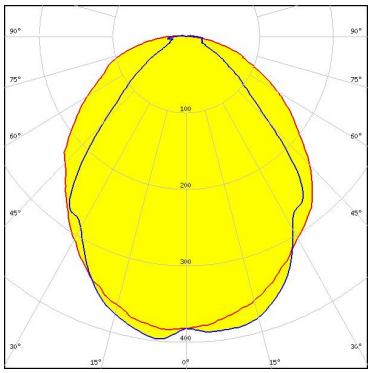
Required components:



OPTICAL RESULTS (MEASURED):

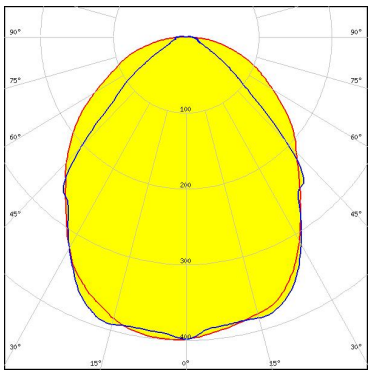
NICHIA

LED	NF2x757G
FWHM / FWTM	105.0 + 85.0° / 165.0 + 125.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



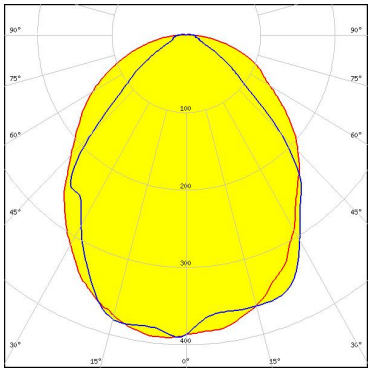
NICHIA

LED	NFSW757H
FWHM / FWTM	100.0 + 90.0° / 163.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



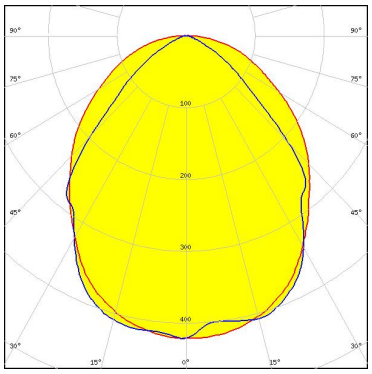
NICHIA

LED	NFSx757G
FWHM / FWTM	98.0 + 88.0° / 162.0 + 125.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM

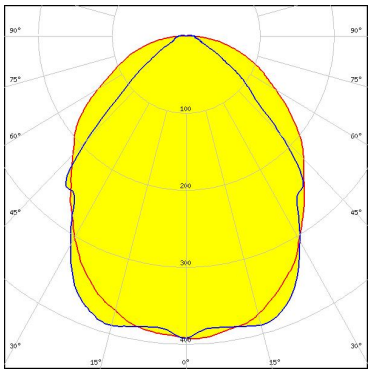
LED	PL-LIN-IND-Z1 2800 560x24
FWHM / FWTM	101.0 + 89.0° / 163.0 + 125.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

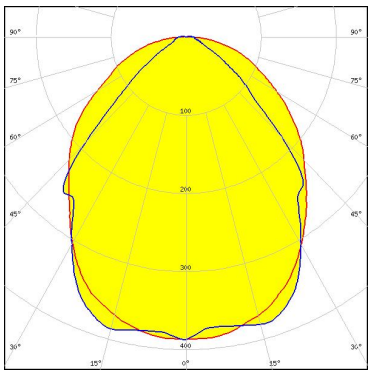
OSRAM

LED	PL-LIN-Z5 1100 280x20
FWHM / FWTM	101.0 + 89.0° / 164.0 + 125.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



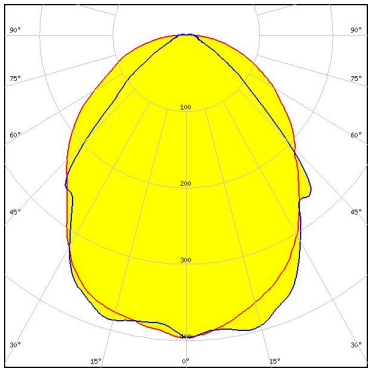
OSRAM

LED	PL-LIN-Z5 2000 280x20
FWHM / FWTM	101.0 + 89.0° / 164.0 + 125.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



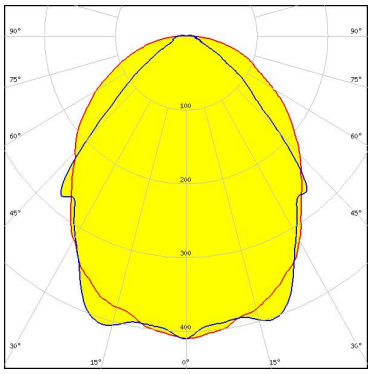
OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	99.0 + 89.0° / 163.0 + 125.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

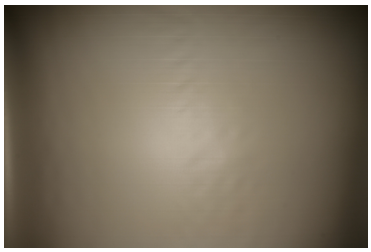
LED	Duris S5 (Single chip)
FWHM / FWTM	98.0 + 89.0° / 163.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

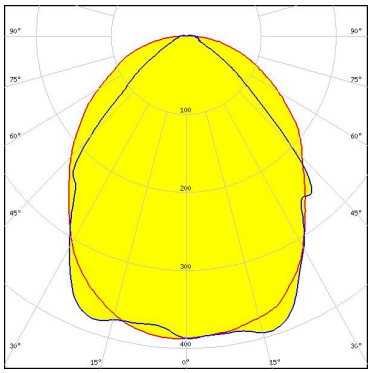


OPTICAL RESULTS (MEASURED):

PHILIPS

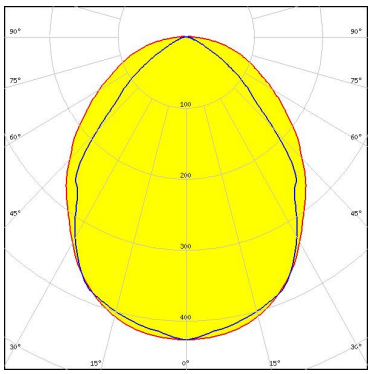
LED	Fortimo LED Strip 1ft 1100lm FC HV4 & LV4
FWHM / FWTM	100.0 + 89.0° / 163.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





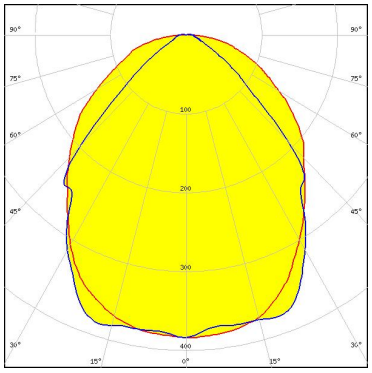
PHILIPS

LED	Fortimo LED Strip 1ft 1100lm FC HV5 & LV5
FWHM / FWTM	99.0 + 85.0° / 163.0 + 123.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



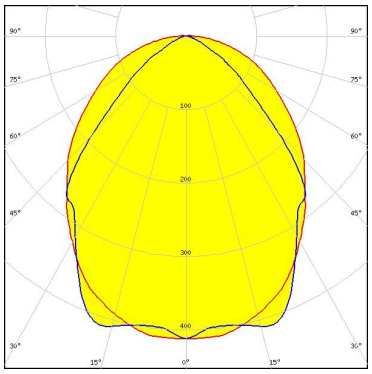
PHILIPS

LED	Fortimo LED Strip 1ft 650lm FC HV4 & LV4
FWHM / FWTM	102.0 + 90.0° / 164.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHILIPS

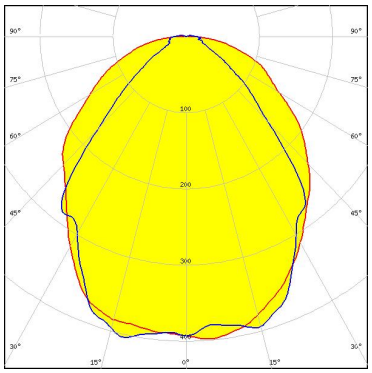
LED	Fortimo LED Strip 1ft 650lm FC HV5 & LV5
FWHM / FWTM	101.0 + 87.0° / 163.0 + 123.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

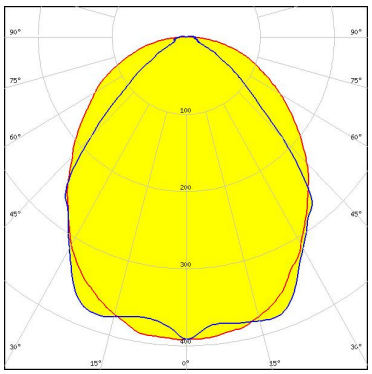
SAMSUNG

LED	LM28xB Series
FWHM / FWTM	105.0 + 86.0° / 165.0 + 124.0°
Efficiency	84 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



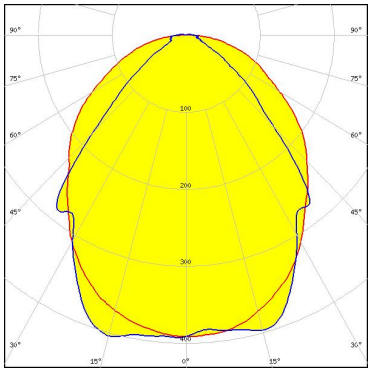
SAMSUNG

LED	LM561B Plus
FWHM / FWTM	88.0 + 100.0° / 125.0 + 164.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



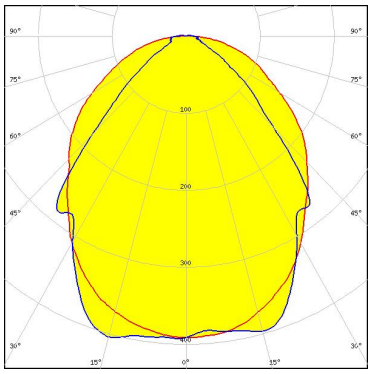
SAMSUNG

LED	LT-H282C
FWHM / FWTM	103.0 + 87.0° / 164.0 + 125.0°
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

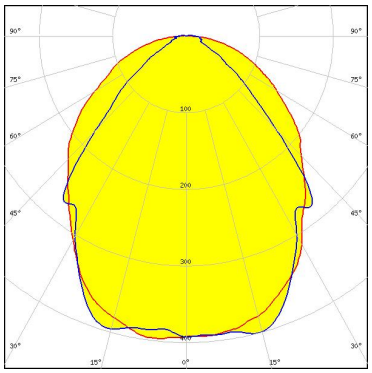
LED	LT-H562C
FWHM / FWTM	103.0 + 87.0° / 164.0 + 125.0°
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

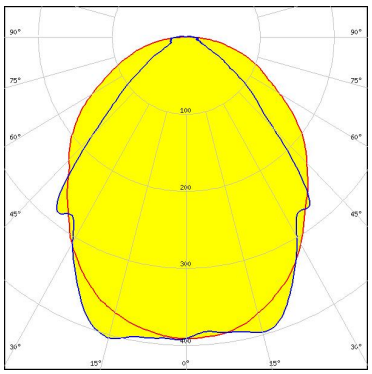
SAMSUNG

LED	LT-Q282B
FWHM / FWTM	101.0 + 87.0° / 164.0 + 125.0°
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



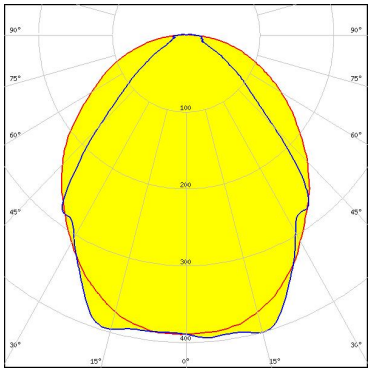
SAMSUNG

LED	LT-S282H
FWHM / FWTM	104.0 + 86.0° / 165.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



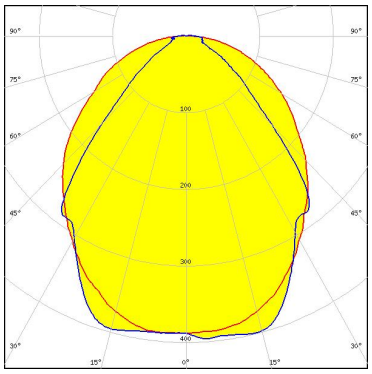
SAMSUNG

LED	LT-S562H
FWHM / FWTM	104.0 + 86.0° / 165.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

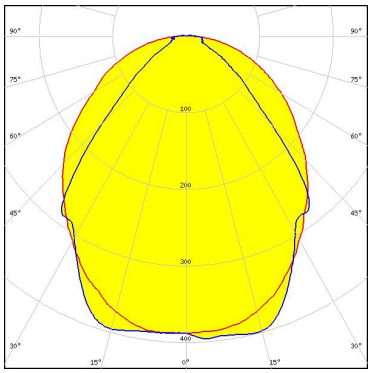
LED	LT-V282E
FWHM / FWTM	103.0 + 86.0° / 164.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

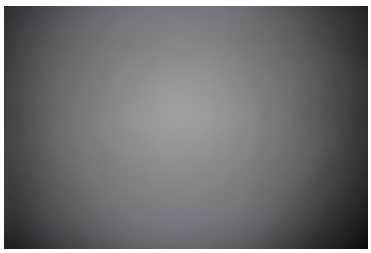
SAMSUNG

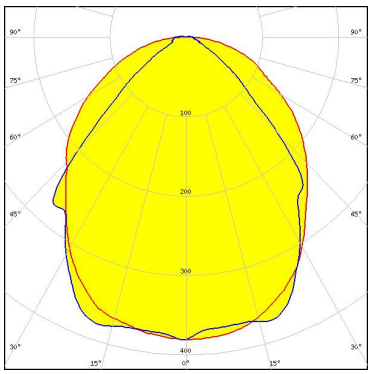
LED	LT-V562E
FWHM / FWTM	103.0 + 86.0° / 164.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

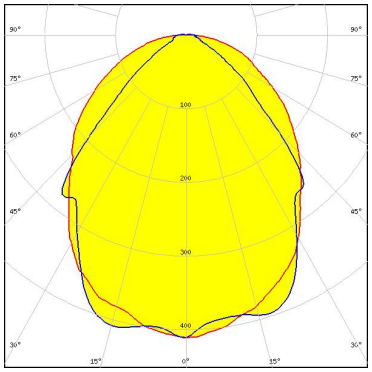
LED	SEOUL 5630D
FWHM / FWTM	93.0° / 141.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





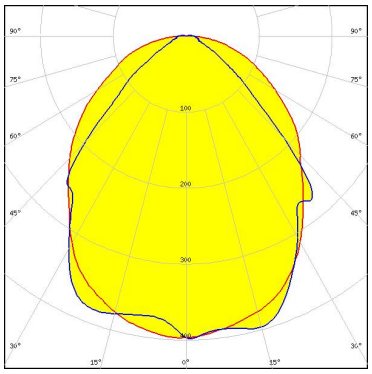
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3030
FWHM / FWTM	99.0 + 88.0° / 163.0 + 125.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TRIDONIC

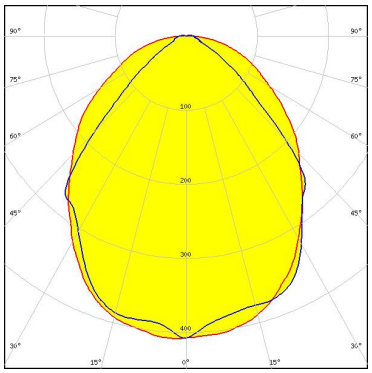
LED	LLE G4 24x280mm 1250lm
FWHM / FWTM	100.0 + 89.0° / 163.0 + 125.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

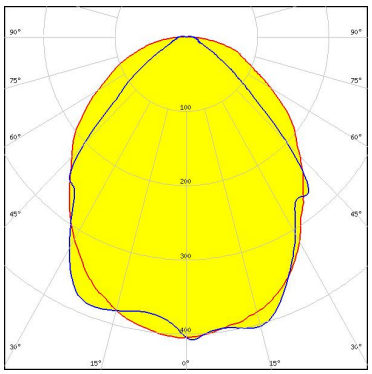
TRIDONIC

LED	LLE G4 24x280mm 2000lm ADV
FWHM / FWTM	98.0 + 88.0° / 162.0 + 124.0°
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TRIDONIC

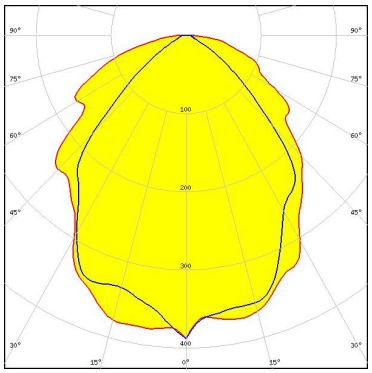
LED	LLE G4 24x280mm 650lm
FWHM / FWTM	99.0 + 89.0° / 163.0 + 125.0°
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

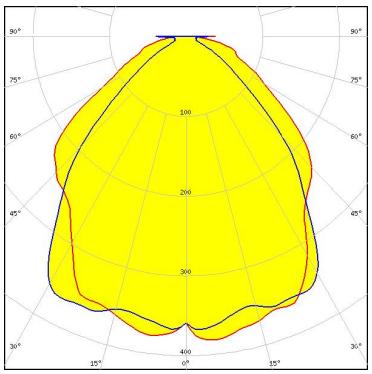
bridgelux

LED	Bridgelux SMD 2835
FWHM / FWTM	100.0 + 86.0° / 165.0 + 120.0°
Efficiency	77 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



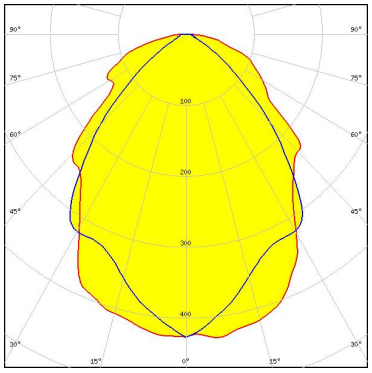
CREE LEDs

LED	XP-G3
FWHM / FWTM	105.0 + 89.0° / 161.0 + 124.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



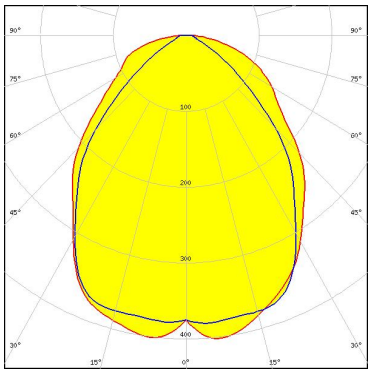
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	96.0 + 84.0° / 161.0 + 120.0°
Efficiency	80 %
Peak intensity	0.4 cd/lm
LEDs/each optic	2
Light colour	White
Required components:	



LUMILEDS

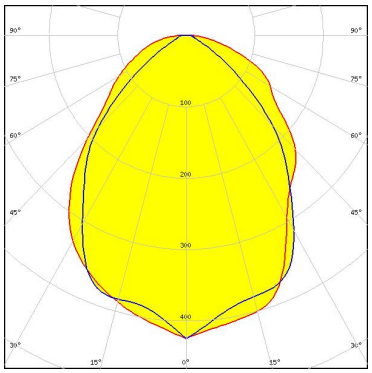
LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	93.0 + 84.0° / 162.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

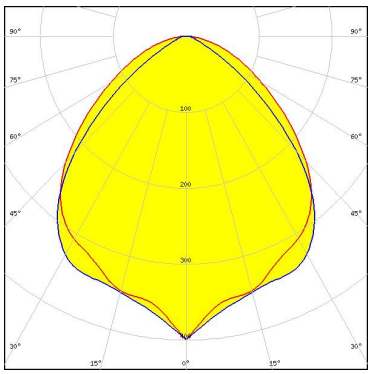
OSRAM
Opto Semiconductors

LED	Duris E 2835
FWHM / FWTM	83.0 + 91.0° / 122.0 + 159.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



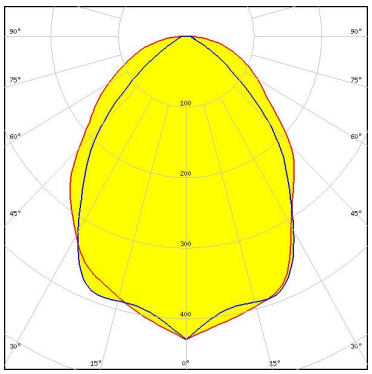
SAMSUNG

LED	LM301B
FWHM / FWTM	98.0 + 92.0° / 152.0 + 126.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



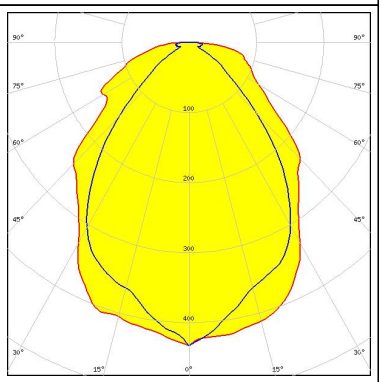
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3030C
FWHM / FWTM	91.0 + 82.0° / 160.0 + 120.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

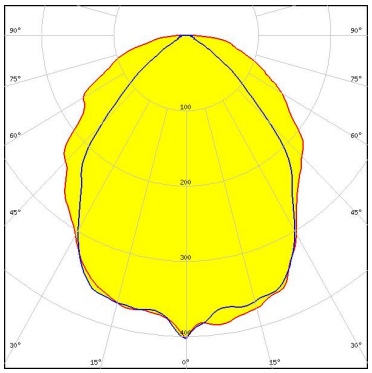
LED	SEOUL DC 3528
FWHM / FWTM	95.0 + 78.0° / 169.0 + 116.0°
Efficiency	78 %
Peak intensity	0.4 cd/lm
LEDs/each optic	2
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

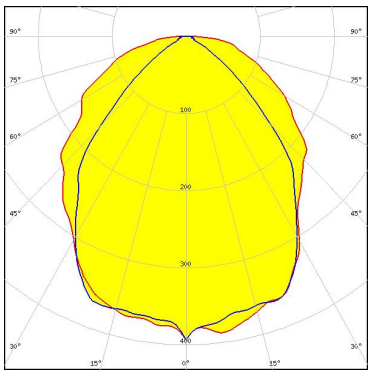
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	102.0 + 84.0° / 168.0 + 117.0°
Efficiency	77 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



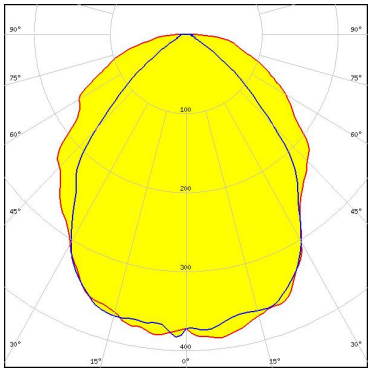
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	102.0 + 86.0° / 169.0 + 118.0°
Efficiency	77 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



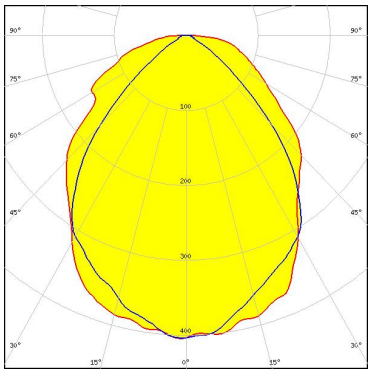
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	104.0 + 86.0° / 169.0 + 118.0°
Efficiency	77 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

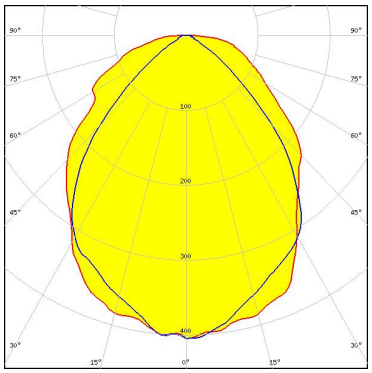
LED	SEOUL DC 3528
FWHM / FWTM	99.0 + 84.0° / 167.0 + 117.0°
Efficiency	78 %
Peak intensity	0.4 cd/lm
LEDs/each optic	2
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

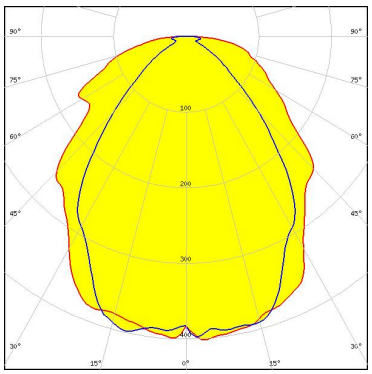
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	99.0 + 84.0° / 167.0 + 116.0°
Efficiency	78 %
Peak intensity	0.4 cd/lm
LEDs/each optic	2
Light colour	White
Required components:	



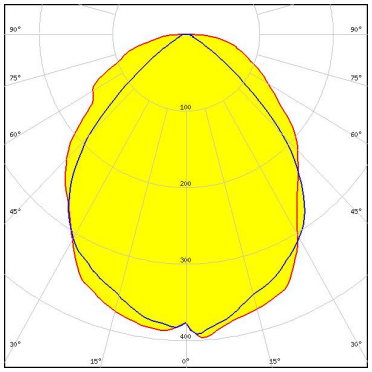
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	100.0 + 80.0° / 170.0 + 118.0°
Efficiency	78 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	SEOUL DC 3528
FWHM / FWTM	99.0 + 88.0° / 166.0 + 118.0°
Efficiency	77 %
Peak intensity	0.4 cd/lm
LEDs/each optic	2
Light colour	White
Required components:	



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.
405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy